

Recovery Plan Action Status

Plan Name: Recovery Plan for the Pedate Checkermallow (*Sidalcea pedata*) and Slender-petaled Mustard (*Thelypodium stenopetalum*)

Plan Status: Final

Plan Date: 31-Jul-98

Lead Agency: USFWS

Lead Office: Carlsbad Fish And Wildlife Office

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431-9440)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	1	11	Identify and protect priority habitats and sties	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Acquisition: General, Management: General, Research: Habitat Requirements, Research: Habitat Status, Research: Population Surveys	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	Support from area cities would assist CDFG and FWS; additional possible costs TBD. In 2002 the San Bernardino National Forest completed a Meadow Habitat Management Guide. The San Bernardino National Forest has closed and rehabilitated unauthorized trails in Belleville Meadow. Fencing and signing were done at Old Ski Beach and on the south side of Baldwin Lake. The San Bernardino National Forest has provided an exotic plant educational brochure to Southwest Shore Recreation Residence Tract cabin owners to protect pedate checkermallow habitat. The San Bernardino National Forest has revised its dispersed camping, fuelwood collection, and target shooting policies to avoid habitat for these species. The San Bernardino National Forest policy under the 2006 Land Management Plan prohibits use of vehicles off designated routes.

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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	1	121	Identify and evaluate protection alternatives	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Management: Planning, Research: Competition, Research: Demographic Studies, Research: Genetics, Research: Management Techniques, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Outreach to landowners vital. *Volunteer support may be available; costs after 2007 TBD. The San Bernardino National Forest has an ongoing implementation and effectiveness monitoring program to evaluate efforts to protect federally listed species. Monitoring of these species occurs on a regular basis.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	1	122	Solicit cooperation of private landowners	Ongoing Not Current	FY 1995 - FY 1999		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education	Internal Field Assistance, Internal Technical Assistance	
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	123	Develop and implement mitigation strategies	Ongoing Current	FY 2000 - FY 2004		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Acquisition: General, Management: Land Use, Management: Planning, Other: Administration, Other: Law Enforcement, Other: Regulations, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Contract, Internal Technical Assistance	*Precise costs and task duration will be determined by land acquisition costs (if any) and results of prescribed research. In 2002 the San Bernardino National Forest completed a Meadow Habitat Management Guide. See description above under Action 11.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	21	Prepare a comprehensive adaptive management plan	Ongoing Current	FY 2000 - FY 2004		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Management: General	Contract, Internal Technical Assistance, Species Expert	In 2002 the San Bernardino National Forest completed a Meadow Habitat Management Guide.

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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	221	Maintain optimum hydrological conditions of habitat	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Management: General	Contract, Internal Field Assistance, Internal Technical Assistance	
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	222	Restrict grazing in meadow habitats	Ongoing Current	FY 1995 - FY 1999		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Acquisition: General, Management: General	Internal Administrative, Internal Technical Assistance	

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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	223	Limit recreational use in sensitive habitat	Ongoing Current	FY 1995 - FY 1999		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Acquisition: General, Management: General, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Contract, Internal Technical Assistance	In 2002 the San Bernardino National Forest completed a Meadow Habitat Management Guide. The San Bernardino National Forest has closed and rehabilitated unauthorized trails in Belleville Meadow. Fencing and signing were done at Old Ski Beach and on the south side of Baldwin Lake. The San Bernardino National Forest has provided an exotic plant educational brochure to Southwest Shore Recreation Residence Tract cabin owners to protect pedate checkermallow habitat. The San Bernardino National Forest has revised its dispersed camping, fuelwood collection, and target shooting policies to avoid habitat for these species. The San Bernardino National Forest policy under the 2006 Land Management Plan prohibits use of vehicles off designated routes.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	224	Establish interpretative trails outside essential habitat	Partially Complete	FY 2000 - FY 2004		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Acquisition: General, Other: Information and Education, Other: Law Enforcement	Contract, Internal Field Assistance, Internal Technical Assistance	The San Bernardino National Forest has closed and rehabilitated unauthorized trails in Belleville Meadow.

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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	225	Restrict the timing of weed abatement activities in sensitive habitat	Not Started			Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Internal Technical Assistance	
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	226	Prevent introduction of exotic plants	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Management: General, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance	*Precise costs determined by extent of problem. The San Bernardino National Forest has provided an exotic plant educational brochure to the Southwest Shore Recreation Residence Tract cabin owners to protect pedate checkermallow habitat. Coordination occurs on an ongoing basis.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	227	Fence plant populations and habitat	Ongoing Current	FY 1995 - FY 1999		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Acquisition: General, Management: General	Contract, Internal Field Assistance	Fencing and signing were done at Old Ski Beach and on the south side of Baldwin Lake by the San Bernardino National Forest.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	231	Continue biological monitoring program	Ongoing Current	FY 1995 - FY 1999		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Requires coordination with local jurisdictions, State agencies and landowners. The San Bernardino National Forest has been conducting surveys at Belleville Meadow.

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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	232	Identify and monitor current and potential threats	Ongoing Current	FY 1995 - FY 1999		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Management: Planning, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Environmental Contaminants, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Other Information, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Taxonomic Studies	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Requires coordination with local land planners. In 2002 the San Bernardino National Forest completed a Meadow Habitat Management Guide. The San Bernardino National Forest has an ongoing implementation and effectiveness monitoring program to evaluate efforts to protect federally listed species. Monitoring of these species occurs on a regular basis.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	233	Report findings with recommendations	Ongoing Not Current	FY 2000 - FY 2004		Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Other: Administration	Contract, Internal Administrative	In 2002, the San Bernardino National Forest completed a Meadow Habitat Management Guide which included information on the status of the species.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	31	Research and implement effective restoration techniques	Not Started			Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Research: Management Techniques, Research: Other Information, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	

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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	32	Evaluate restoration options at existing, optimum sites	Not Started			Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	33	Select and prioritize plant reintroduction and habitat restoration sites	Not Started			Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Acquisition: General, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Reintroduction, Research: Competition, Research: Demographic Studies, Research: Habitat Requirements, Research: Management Techniques, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	34	Restore sufficient habitat and plants to achieve recovery	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	*Precise cost and task duration will be determined by land acquisitions costs (if any) and results of prescribed research
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	2	35	Establish criteria to evaluate restoration programs	Not Started			Big Bear City, Big Bear Community Services District, City of Big Bear Lake, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	3	4	Conduct necessary research on the population dynamics, ecology and physiology of the two plant species	Ongoing Not Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Research: Competition, Research: Demographic Studies, Research: Disease, Research: General, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Predation, Research: Taxonomic Studies	Contract, Graduate Student, Internal Technical Assistance, Species Expert	Thelypodium studied in 1998, Sidalcea studied in 2004-06.
Slender-petaled mustard (Thelypodium stenopetalum), Pedate checker-mallow (Sidalcea pedata)	3	5	Develop an educational outreach program	Ongoing Current			U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	The San Bernardino National Forest provides educational outreach at their visitor center in Fawnskin.